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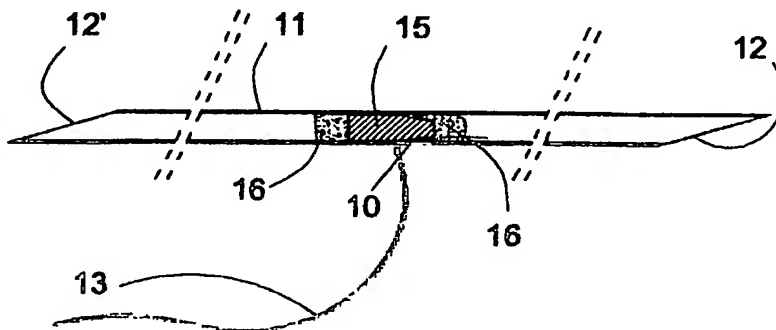
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ning of each regular issue of the PCT Gazette.

(54) Title: ATRAUMATIC TWO-TIPPED SURGICAL NEEDLE



(57) Abstract: Atraumatic two-tipped surgical needle (11) consisting of a tubular metal shaft, the central portion of which is equipped with a hole (10), through which emerges a surgical thread (13) that is anchored inside the needle (11).

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 298 06 617 U (LINDENBLATT LIESELOTTE) 2 July 1998 (1998-07-02) page 6, line 17 - line 29; figures 1,4 ---	1, 2, 10, 13
X	DE 197 06 086 A (VATANKHAH BARAZANDEH PARWIS ; VATANKHAH BARAZANDEH MOKHTAR D (DE)) 6 November 1997 (1997-11-06) column 3, line 57 - line 61; figure 1 column 4, line 32 - line 34; figure 11 ---	1, 13
A	EP 0 205 811 A (LEE WILSON KAM CHOR DR) 30 December 1986 (1986-12-30) claims 1,8 ---	1
A	US 5 908 428 A (SCIRICA PAUL A ET AL) 1 June 1999 (1999-06-01) figure 7 -----	1, 13

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
DE 29806617	U	02-07-1998	DE	29806617 U1	02-07-1998
DE 19706086	A	06-11-1997	DE	29602767 U1	26-06-1997
			DE	19706086 A1	06-11-1997
EP 0205811	A	30-12-1986	AU	585593 B2	22-06-1989
			AU	5576886 A	24-12-1986
			EP	0205811 A1	30-12-1986
			US	4781190 A	01-11-1988
US 5908428	A	01-06-1999	AU	7599398 A	30-12-1998
			EP	0986330 A1	22-03-2000
			WO	9853745 A1	03-12-1998